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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Fluid and Electrolytes

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|  |  |  |  |  |  |  |  |  |  |  | 1H |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  Y |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 2H |  Y |  P |  O |  P |  H |  O |  S |  P |  H |  A |  T |  E |  M |  I |  A |  |  |  |  |  |  |
|  |  |  |  | 3H |  |  |  |  |  |  |  N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  Y |  |  |  |  |  |  |  A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  P |  |  |  |  |  |  |  T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  E |  |  | 4H |  Y |  P |  E |  R |  M |  A |  G |  N |  E |  S |  I |  U |  M |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  R |  |  |  |  |  |  |  E |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 5H |  Y |  P |  O |  C |  A |  L |  C |  E |  M |  I |  A |  | 6H |  | 7H |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  H |  |  |  |  |  |  |  I |  |  |  |  Y |  |  Y |  | 83 |  |  | 9S |  |  |  |  |  |  |  |
|  |  |  |  |  O |  |  |  |  |  |  |  A |  |  |  |  P |  |  P |  |  0 |  | 10P |  O |  T |  A |  S |  S |  I |  U |  M |
|  |  |  |  |  S |  |  |  | 11H |  |  |  |  | 12H |  |  E |  |  O |  |  4 |  |  |  D |  |  |  |  |  |  |  |
|  |  |  |  |  P |  |  |  |  Y |  |  |  |  |  Y |  |  R |  |  T |  |  5 |  |  |  I |  | 131 |  |  |  |  |  |
|  |  |  |  |  H |  |  |  |  P |  |  |  |  |  P |  |  K |  |  O |  |  |  |  |  U |  |  3 |  |  |  |  |  |
|  |  |  |  |  A |  |  |  |  E |  | 14H |  Y |  P |  O |  M |  A |  G |  N |  E |  S |  I |  U |  M |  |  2 |  |  |  |  |  |
|  |  |  |  |  T |  |  |  |  R |  |  |  |  |  K |  |  L |  |  I |  |  |  |  |  |  |  1 |  |  |  |  |  |
|  |  |  |  |  E |  |  |  |  C |  |  |  |  |  A |  |  E |  | 15C |  A |  L |  C |  I |  U |  M |  |  |  |  |  |  |
|  |  |  |  |  M |  |  |  |  A |  |  |  |  |  L |  |  M |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 16F |  L |  U |  I |  D |  V |  O |  L |  U |  M |  E |  D |  E |  F |  I |  C | 17I |  T |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  A |  |  |  |  C |  |  |  |  |  M |  |  A |  |  S |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 18H |  Y |  P |  E |  R |  T |  O |  N |  I |  C |  |  |  O |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  M |  |  |  |  |  A |  |  |  |  T |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  I |  |  |  |  |  |  |  |  |  O |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  A |  |  |  | 19H |  Y |  P |  E |  R |  N |  A |  T |  R |  E |  M |  I |  A |  |  |  |  |  |
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| **Across****2.** CNS Depression, Muscle Weakness,Seizure, Osteomalacia**4.** Lethargy,drowsiness,Decreased Pulse/Bp,Muscle Weakness, Diminished DTR,N/V**5.** Chvostek's Sign, Trousseau's Sign, Tetany, Seizures,Fatigue**10.** 3.5-5**14.** Confusion,Tremors,Hyperactive DTR, Increased Pulse/BP, Insomnia,Muscle Cramps**15.** 9.0-10.5**16.** Loss of Fluids From the Cells and Tissue**18.** Initially expands and raises the osmolality in ECF( D5 1/2NS & D10W)**19.** Seizures,Coma,Restlessness,Irritability, Muscle twitching to the point of weakness | **Down****1.** Caused by: GI Loss, SIADH, Water Intoxication, NPO Status**3.** Caused by : Renal Failure, Enemas containing Phosphorus, Chemotherapy Drugs**6.** Caused by: Renal Failure, Adrenal Insufficiency, Acidosis**7.** More Water than electrolytes(0.45% NaCl and D5W)**8.** Phosphorus**9.** 135-145**11.** Lethargy,Decreased reflexes, confusion, Bone Pain, Fractures**12.** Muscle Weakness, cramping, dysrhythmias, Flat/ Inverted T Waves**13.** Magnesium**17.** Same osmolarity as body fluid(NS 0.9 NaCl & lactated ringers) |

   HypoKalemia       Hyperkalemia       Hyponatremia       Fluid Volume Deficit       Hypernatremia       Hypocalcemia       Hypercalcemia       Hypermagnesium       Hypomagnesium       Hypophosphatemia       HyperPhosphatemia       Isotonic       Hypotonic       Hypertonic       Sodium       Potassium       Calcium       1.3-2.1       3.0-4.5